FACT SHEET#3
DOME 4.0 - Platform

Objectives

- **Develop a robust digital open marketplace platform:** The goal is to create an open platform where industrial data, particularly in manufacturing and materials, can be shared and utilized for innovation and value generation. This aligns with the broader Horizon 2020 program to foster collaboration and open science practices.

- **Support Agile and DevOps practices for seamless development and integration:** Ensuring the platform integrates seamlessly by implementing Agile and DevOps methodologies. This will allow continuous improvements and smooth interaction between various development teams, enhancing efficiency.

- **Provide user-friendly onboarding services for data consumers and providers:** The project will lower the barrier for new users, making it easier for both data providers and consumers to access and use the platform with minimal technical challenges.

- **Ensure a unified web platform for user interaction:** A single, integrated web platform will be developed to ensure users can easily interact with the system. This platform will bring together various tools, data, and services under one unified interface.

Key features

- **Agile and DevOps Infrastructure:** The goal is to create an open platform where industrial data, particularly in manufacturing and materials, can be shared and utilized for innovation and value generation. This aligns with the broader Horizon 2020 program to foster collaboration and open science practices.

- **Core Platform Requirements:** The project will document essential user stories, business cases, and high-level platform requirements. This ensures the platform addresses real-world needs and is adaptable to different sectors.

- **Architecture Design:** TA scalable, multi-sided platform architecture will be developed to ensure smooth interoperability between different marketplaces and systems. This will allow for future integrations and expansions as needed.

- **Web Platform Implementation:** The implementation of the web platform will leverage components from existing projects (e.g., MarketPlace, MARKET4.0, and VIMMP). This reuse of proven systems will reduce development time and ensure robustness.

- **Onboarding Services:** Tools will be developed to guide users in connecting their data and services to the DOME 4.0 platform, ensuring compliance with FAIR principles (Findable, Accessible, Interoperable, Reusable).

Benefits

- **Enhanced collaboration and continuous integration:** By adopting Agile and DevOps practices, the platform will facilitate ongoing collaboration between partners and continuous improvements in the system.

- **Simplified user onboarding and interaction:** The platform's onboarding tools will make it easier for users to connect to and interact with the system, reducing the learning curve and ensuring more efficient use.

- **Scalable architecture supporting diverse use cases:** The platform will be built with scalability in mind, allowing it to support a wide range of use cases, from small to large-scale applications.

- **Seamless integration with existing marketplaces and data platforms:** By building on existing systems and ensuring interoperability, the platform will integrate smoothly with other marketplaces, enabling data sharing across different sectors and platforms.

DOME 4.0

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